MEC Keypad Part Number MEC-0011 General Specification

The keypad is a translucent silicone rubber keypad with designed to be used with backlighting. It consists of 6 compressible keys and 3 non-compressible LED window protrusions. The compressible keys should have a stroke of 1mm +/- 0.1 mm and have a maximum force of 140 grams +/- 15 grams. The snap ratio should be in the range of 40-50%. Graphics should be coated for wear/chemical resistance. Air channels are not shown but are allowed on the backside from key to key. No through perforations are allowed (sealed application). Carbon conductors of the highest quality should be used to achieve minimum possible resistance on switch closure.

Drawing Notes:

General:

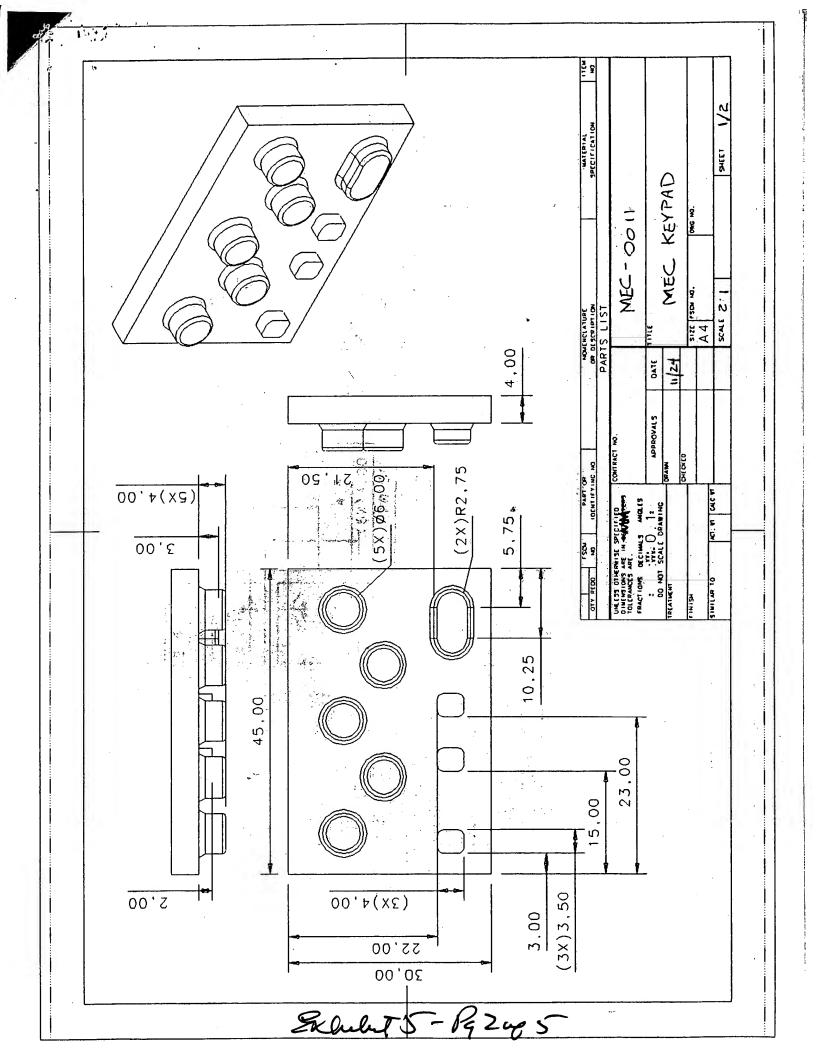
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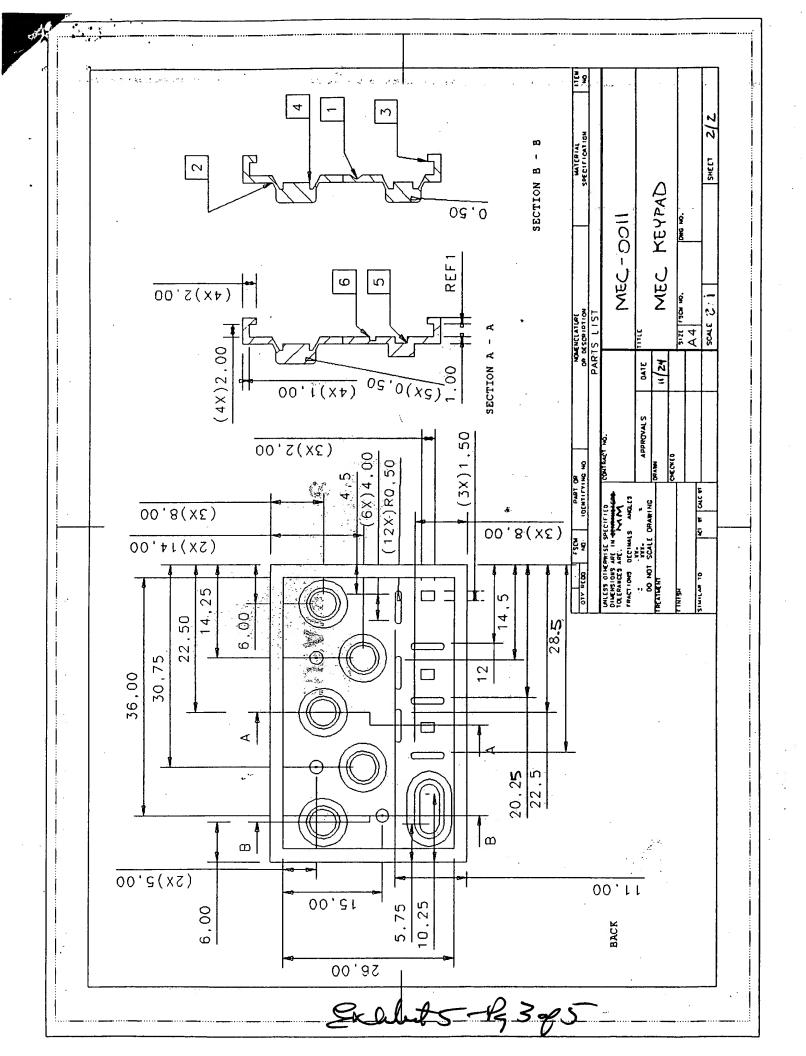
Compressible keys have 0.5mm radius on key top edge, LED window protrusions have a sharp top edge. See attachment for legend information.

- 1. Conical depressions (3 X), 2mm in diameter, 30 degree chamfer.
- 2. Web to be designed as per the force specification but should not extend more than 1 mm beyond the solid key periphery,
- 3. Feature to extend the full perimeter of the keypad.
- 4. Carbon conductors are 4mm diameter (5X) and 3X5.5 (1X).
- 5. LED relief features (3X) to be 0.9mm in depth.
- 6. Channels (6X) to be 1mm wide and 0.5mm in depth. Positioning dimensions to channels are to the theoretical centerline of 0.5 mm radius end features.

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Exhbt 5 - Pg 1005





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ELITE SALES & TECHNOLOGY, LTD.

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Phone: 919 772-7042 / Fext 919 772-8073 / E-mail: eliterales@eliterales.com / http://www.eliterales.com

FACSIMILE QUOTATION FORM

Date:	Friday, November 28, 1997	No. of Pages:	1 of 2
To:	Mr Tony Hancock	Ref. No.:	ES-11287A
Company:	MEC, Inc.	Phone No.:	606 299-2870
Address:	1783 from Works Road Lexington, KY 40511	Fax No.:	606 299-7885
	Flite Quotation # 11166 P/N MEC-0011	Code:	455

Dear Tony:

Listed below is our quotation covering your recent request for pricing. Please carefully review the notes section to confirm that all required product features will be provided. If quotation comparisons are made, please pay close attention to the listed product features and the number of production tool cavities as these items will affect unit pricing...

TOOLING

Proto-Type Tool	\$ 2,200,00	Production Tool	\$ 5.000
No. of Samples	·10 (included)	No. of Cavities	48 (48 pcs. included)
The section control and and and are a section of the section of th		Lead Time for First	
Load Time	25 - 30 Days	Article Parts	30 - 35 Days

UNIT PRICE

Proto-Type Samples	Price Each	Lead Time	Prod. Qty.	Price Each	Lead Time
THE R. LEWIS CO., LANSING, MICHIGAN PROPERTY AND PROPERTY	\$600	25 - 30 Days	1,000	\$ 0.31	30 - 35 Days
anning a maaaan gasa, sama ay Afrika kansan da had kand maadalaa abab asa sama Afrika da 1941 (1961 1966). Afrika ahaan ah			5,000	\$ 0.26	30 - 35 Days
The state of the s			10,000	\$ 0.23	30 - 35 Days
The second secon		7.546.77.70	25,000	\$ 0:22	30 - 35 Days
and the second s			50,000	\$,0.21	.30 - 35 Days
The state of the s	Antonio Perito de la composició de la co	1			

(All Lead times are expressed as business days shipped from Taiwan and order placement)

NOTES:

Shipment Terms - FOB Talwan Shipment Method: FedEx

One (1) base material color and One (1) printing color. Conductive carbon pills

Parts will be supplied to print / notes requirements.

Landed USA pricing furnished upon request. / Please review attached Feature Chart Rologe quantity changes may effect pricing. Skip dates are bus, days from order placement. O+F / CIF pricing includes sid shipping methods only. Special shipping chas, invoiced separately. All rubber parts are manufactured to standard "Ultra-Pracina" tolerance levels. Price breaks are based on new orders only, not the accumulated quantities of existing PO(s).

TERMS:

rig: 30 (with approved credit) = 50% of tooling charge due at order placement. Salance due upon receipt of proto-type samples and/or first article parts. Quoted pricing will be firm for thirty (30) days only. New / first time orders must be submitted with three (3) Trade and one (1) bank reference(s).

Elite Sales & Technology, Ltd. acts as an independent United States sales agent for domestic and international manufacturers and suppliers. Elite Sales, at no time and in no manner may be held responsible for claims regarding defective parts, delayed shipments or any other dispute involving these represented manufacturers or suppliers. By accepting Elite's quotation and issuing a purchase order, the customer agrees to these conditions. Elite Bales will always make every effort to assist the customer in malfacts concerning disputes and advertised product warranty.

Thank you for the opportunity to offer this quotation. If accepted, every effort will be made to supply the very best in quality parts and oustomer service. We will always represent your company's best interest to our

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ELITE'S QUOTED KEYPAD FEATURES

Elite Quotation Number 11166 Quotation Date 11/28/97 Page 2

This chart is provided to explain different keypad features that your application requires. Please review, particularly if quotation comparisons are made. Elite is confident that our pricing will be very competitive if the same keypad features are quoted by all suppliers.

competitive if the same keypad features are quoted by all s	арриета.
PRODUCTION TOOL CAVITY NUMBER Generally, to higher the number of cavities the lower the unumber of tool cavities can be limited by the individual key cavities the supplier/ toolmaker will consider what is in the	best interest of the customer and writers
feasible. MATERIAL DUROMETER: (Hardness) The higher the durometer number the harder the material from 50° to 80° durometers. Some keypads may require from 50° to 80° durometers.	Generally, keypad/keytop durometers range "Generally, keypad/keytop durometers range "Generally, keypad/keytop durometers range "Generally, keypad/keytop durometers range
MATERIAL COLOR:	olor is available if color chart reference number is
PRINTING/GRAPHIC COLOR: Almost any color is available if color chart reference num	A CONTRACT OF THE PROPERTY OF
CONDUCTIVE CONTACTS: CARBON PILL Available conductive contact types are conductive ink, or are by far the most popular. Type and number per key v	and and silver Conductive pills
AIR CHANNELS An air path from key-to-key and/or to the keypad edge cosition after being depressed. This feature will not sign	This allows the key switch to return to its normal inflicant increase the price
MOUNTING BOSS: An alignment feature molded to the keypad bottom. Mo	unting boss will aid in the keypad alignment with
LASER ETCHED PRINTING TECHNOLOGY: Generally selected when keypad back-lighting is regressive. This is a several step process and discontinuous.	
KEYTOP OVERCOAT: Clear silicone ink applied over the printed graph: clinical life. This overcoat will affect pricing.	, two coats can be applied and will extend the
Shown to be one of the best available protective coating supplied in a matte or glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will increase the supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be supplied in a matter of glossy finish and will be	the "rubber" feel and provides a smooth millor.
moisture and oils penetration. Sealplast also "his technology will affect pricing depending on overall KEYPAD MEMBRANE ASSEMBLY: Standard keypad with an attached domed membrane paiver or gold. The membrane is aligned and attached provides a very low profile keypad with good "tactile fe	panel. Conductive contacts can be etched carbon,
provides a very low profile keypad with good tactile to	and extended printed life. Th

Clear epoxy resin molded to keytop for an improved cosmetic appearance and extended printed life. This technology will dramatically affect pricing.

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